

## HOMEWORK

**Objective:** Students will be able to solve any equation in the form of a proportion.

<p>Ex A: <math>\frac{(x-4)}{45} = \frac{1}{5}</math></p> $\frac{45 \cdot (x-4)}{45} = 45 \cdot \frac{1}{5}$ $x - 4 = 9$ $x = 13$	<p>Ex B: <math>\frac{(21)}{(x+7)} = \frac{7}{2}</math></p> $(2)(21) = 7(x+7)$ <p>Cross Multiplication</p> $(2)\frac{(21)}{7} = 7\frac{(x+7)}{7}$ <p>Solve for x</p> $(2)(3) = x + 7$ $x = -1$
<p>1. <math>\frac{(6)}{(x+5)} = \frac{16}{12}</math></p>	<p>2. <math>\frac{(14)}{(x-3)} = \frac{21}{12}</math></p>
<p>3. <math>\frac{15}{x} = \frac{10}{(x-1)}</math></p>	<p>Ex C: <math>\frac{12}{x} = \frac{9}{(x-4)}</math></p> <p>First, cross multiply</p> $12(x-4) = 9x$ $12x - 48 = 9x$ $\underline{-12x} \quad \underline{-12x}$ $-48 = 9x - 12x$ $-48 = -3x$ <p>Then use the Distributive Property Property of Equality, rewrite &amp; then Combine Like Terms Solve for x. <math>x = 16</math></p>